NAVY TANKER T2-SE-A2
MISSION SANTA YNEZ (AO-134)

LAUNCH DATE: DECEMBER 19, 1943

The Marinship Corporation constructed thirty-one "Mission" class tankers for the U.S. Navy. The design was an adaptation from the T2-SE-A1, with the exception of a larger power plant - 10,000 hp versus 6,000 hp. Members of this class served in the U.S. Navy, Naval Transportation Service, and Military Sea Transportation Service - later Military Sealift Command. The *Mission Santa Ynez* transported fuel products from 1943 to 1975 and significantly contributed to her country in times of war and peace. She is the last *Mission* tanker afloat.

Principle Dimensions:
Length (oa): 523'6"
Beam: 68'
Draft: 30'
Cargo Capacity: 120,400 barrels (oil)
Displacement: 21,880 (fl) tons

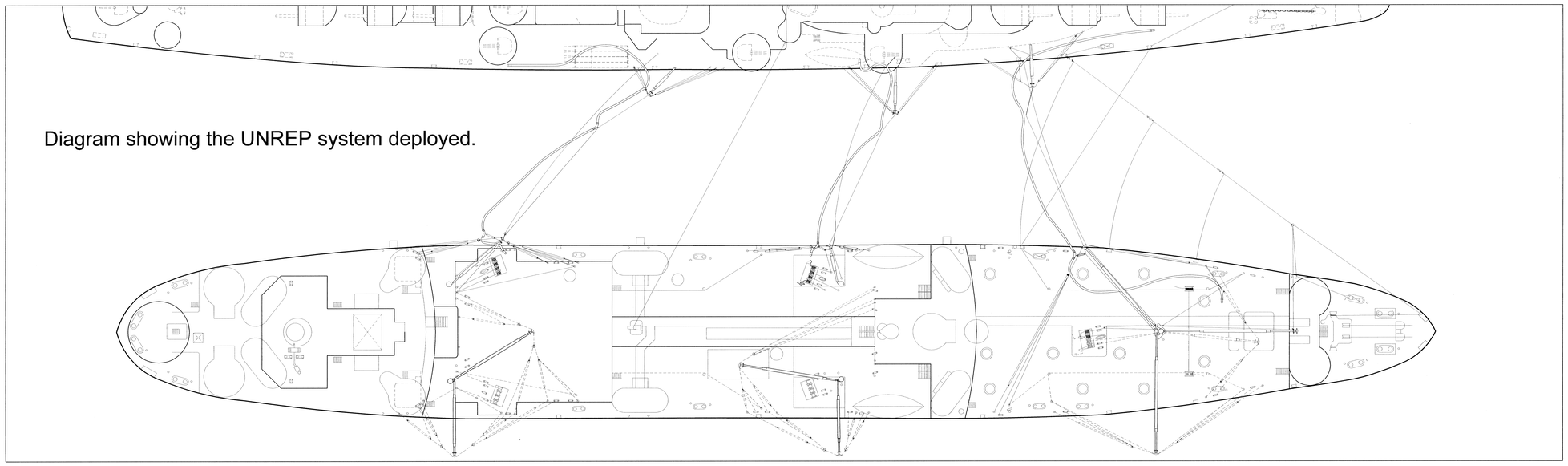
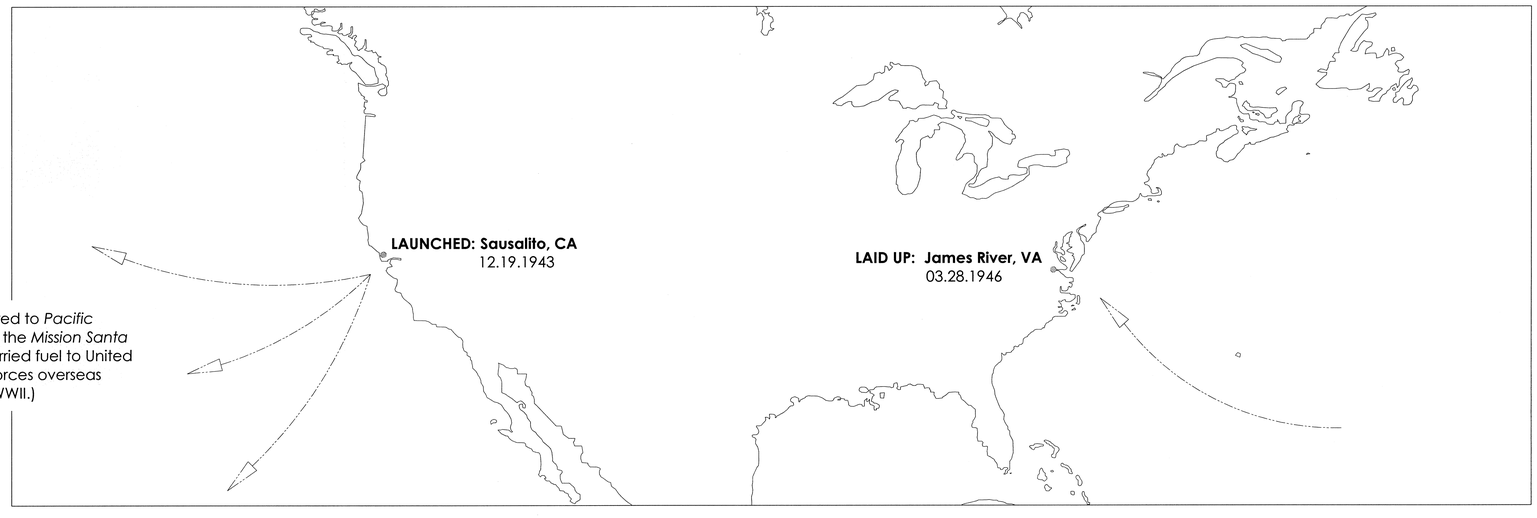


Diagram showing the UNREP system deployed.



(Chartered to *Pacific Tankers*, the *Mission Santa Ynez* carried fuel to United States forces overseas during WWII.)

This project was cosponsored by the Historic American Engineering Record (HAER) and the U.S. Maritime Administration (MARAD). The project was directed by Todd A. Croteau, HAER Maritime Program Coordinator and Erhard Koehler, MARAD Ships Disposal Coordinator. Team members included; Brian Clayton - Historian, Crystal Olin - Architect, and Jet Lowe - HAER Staff Photographer.

NOTE:
Please refer to the U.S. NAVY OILERS AND TANKERS (HAER DC-62): UNDERWAY REPLENISHMENT AND FUELING TECHNOLOGIES documentation set for a detailed account of how the Mission Santa Ynez and related ships functioned at sea.

DELINEATED BY: C.V.OLIN, 2006
HABS MARITIME
RECORDING PROGRAM
NATIONAL PARK SERVICE
UNITED STATES DEPARTMENT OF THE INTERIOR

MISSION SANTA YNEZ (AO-134)
SUISUN BAY RESERVE FLEET
SOLANO

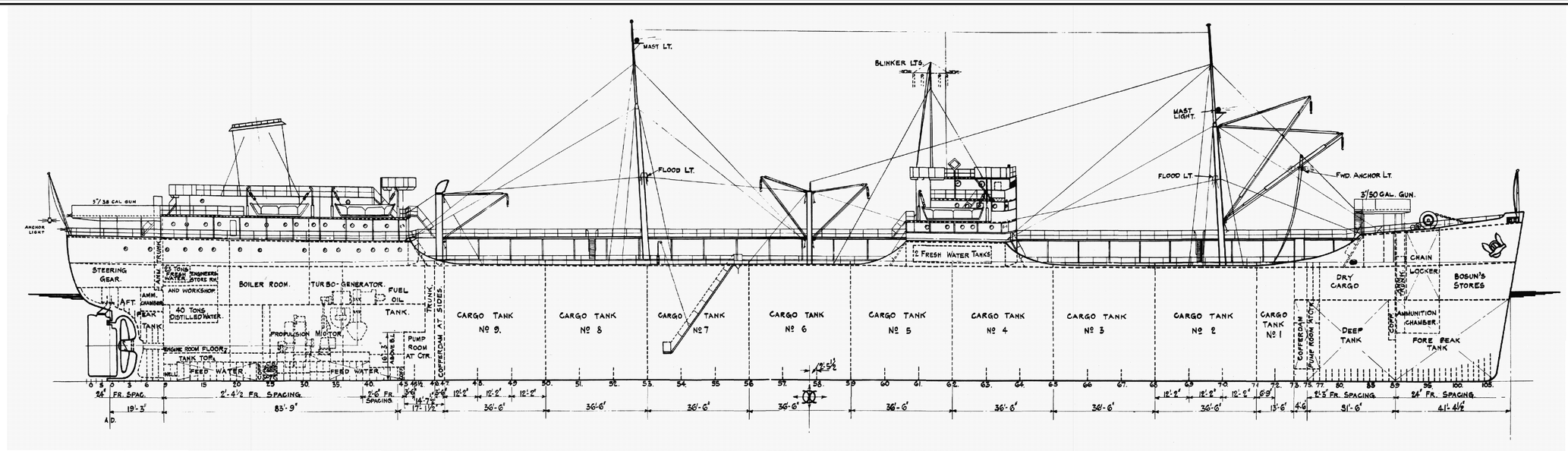
BENICIA VICINITY

CALIFORNIA

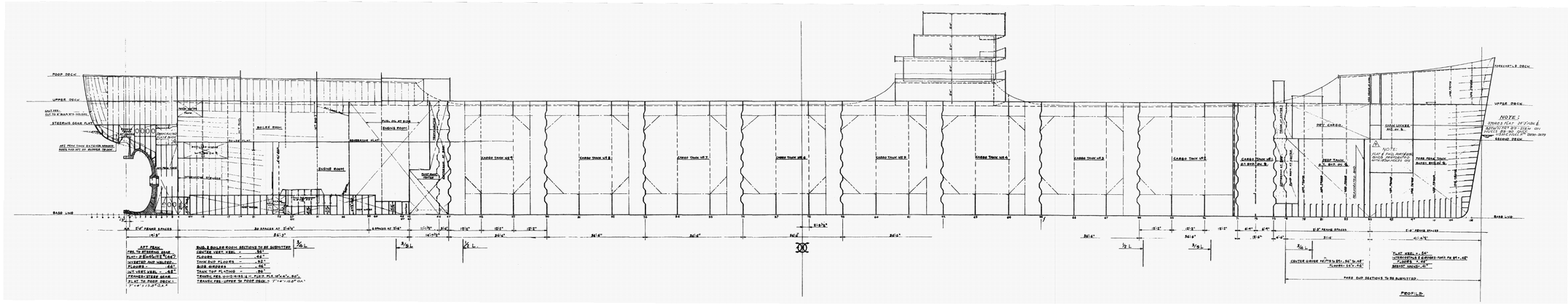
SHEET 1 OF 8

HISTORIC AMERICAN ENGINEERING RECORD
CA-337

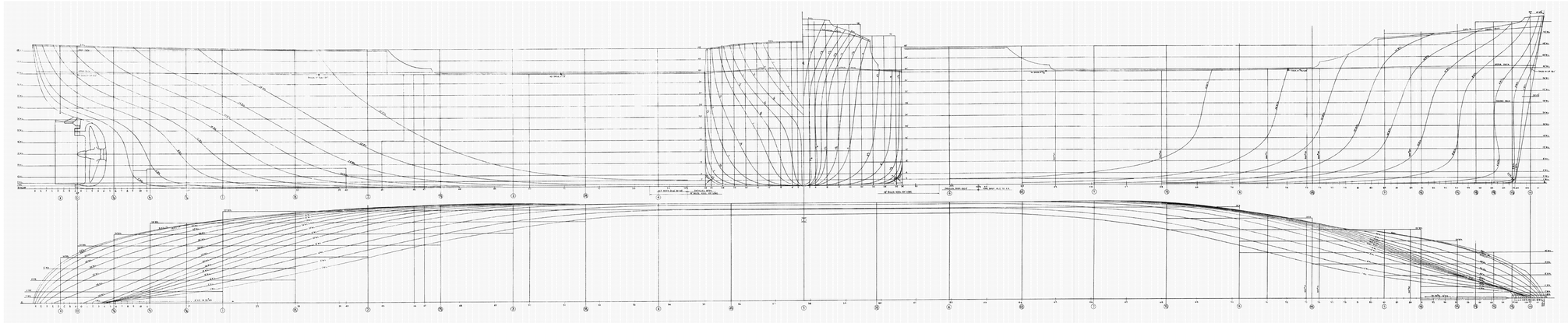
A REPRODUCED PLANE-TABLE SURVEY OF THE HISTORIC AMERICAN TOPOGRAPHIC SURVEYS NATIONAL ATLAS SERIES, PLANE OF TABLE SURVEY



OUTBOARD PROFILE (STARBOARD)



INBOARD PROFILE (CUT MIDSHIP, LOOKING OUTBOARD TOWARD PORT)



T2 NAVY TANKER LINES

0 10 40 80 120 160 200 FEET 240 280 320 360 400 440

1/16"=1'-0"

0 5 10 15 20 METERS 30 35 40 45 50

1/16"=1'-0"

NOTE: DRAWINGS ARE SCANS OF ORIGINAL DRAWINGS LOCATED AT THE NATIONAL ARCHIVES AND RECORDS ADMINISTRATION

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HAER MARITIME RECORDING PROGRAM
NATIONAL PARK SERVICE
UNITED STATES DEPARTMENT OF THE INTERIOR

MISSION SANTA YNEZ (AO-134)
SUISUN BAY RESERVE FLEET
SOLANO

BENICIA VICINITY

CALIFORNIA

SHEET 2 OF 8

HISTORIC AMERICAN ENGINEERING RECORD CA-337

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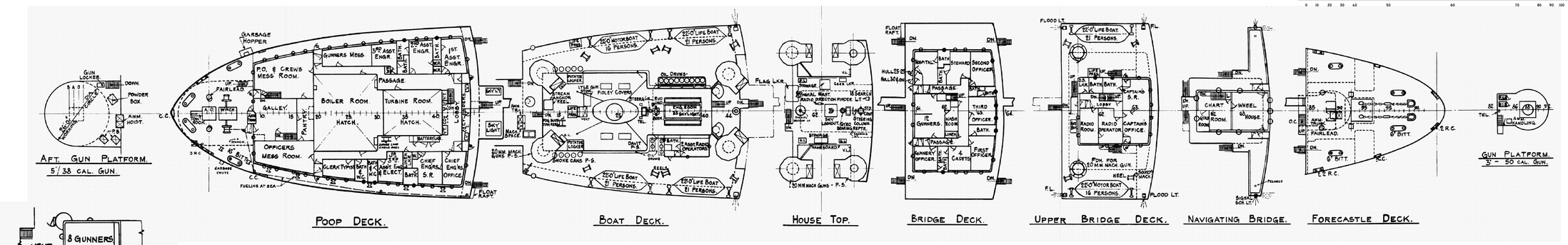
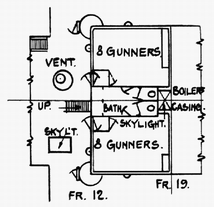
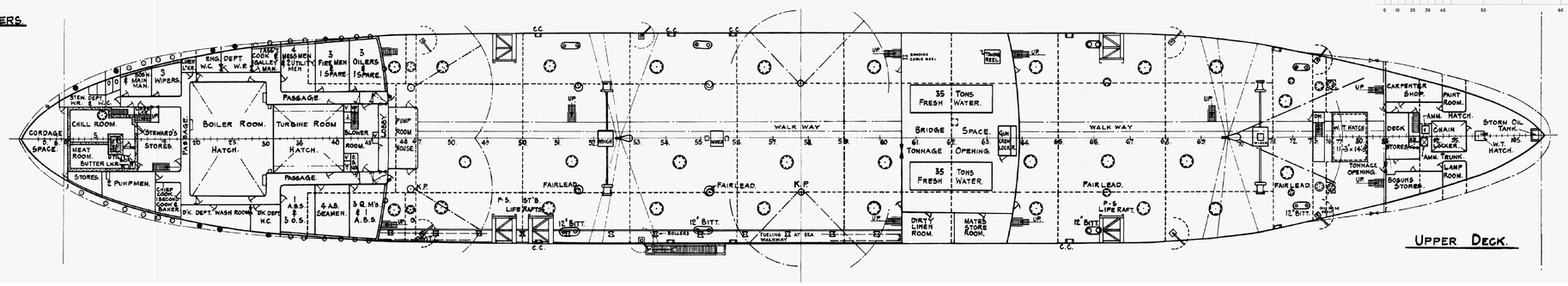
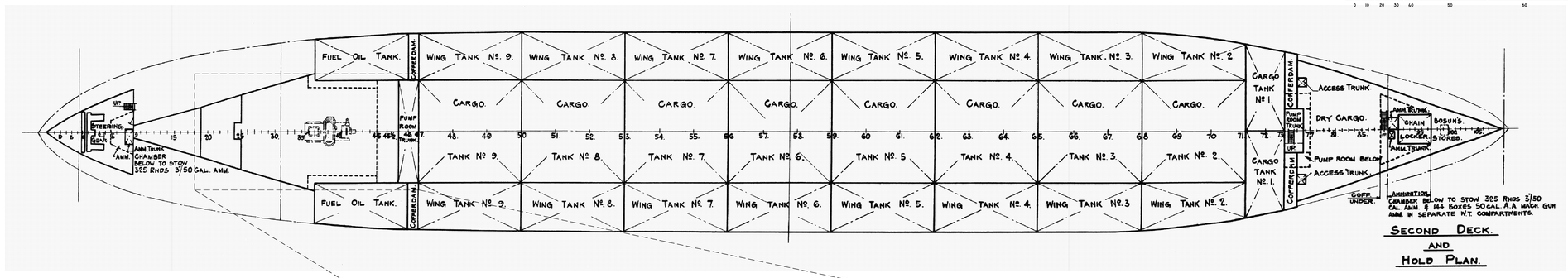




QUARTERS FOR 16 GUNNERS.
BOAT DECK.





SECOND DECK.
AND
HOLD PLAN.

SEE SHEETS 6, 7, AND 8 FOR DETAILING OF THESE PUMP AND ENGINE ROOMS.

0 10 40 80 120 160 200 FEET 240 280 320 360 400 440

1/16"=1'-0"

0 5 10 15 20 METERS 30 35 40 45 50

1/16"=1'-0"

NOTE: DRAWINGS ARE SCANS OF ORIGINAL DRAWINGS LOCATED AT THE NATIONAL ARCHIVES AND RECORDS ADMINISTRATION

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MISSION SANTA YNEZ (AO-134)

SUISUN BAY RESERVE FLEET
SOLANO

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SHEET 3 OF 8

HISTORIC AMERICAN ENGINEERING RECORD
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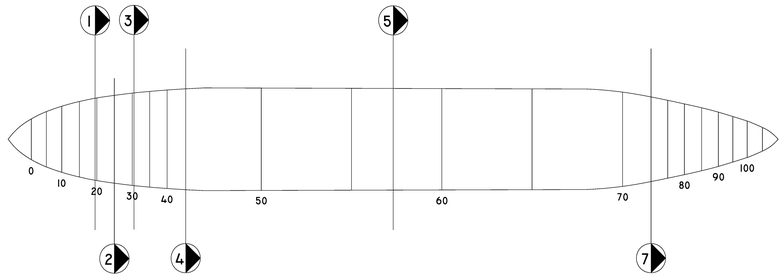
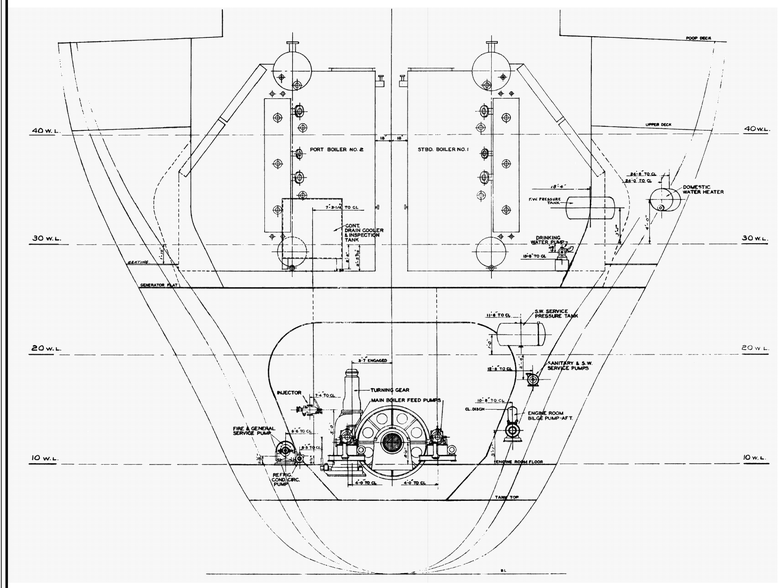
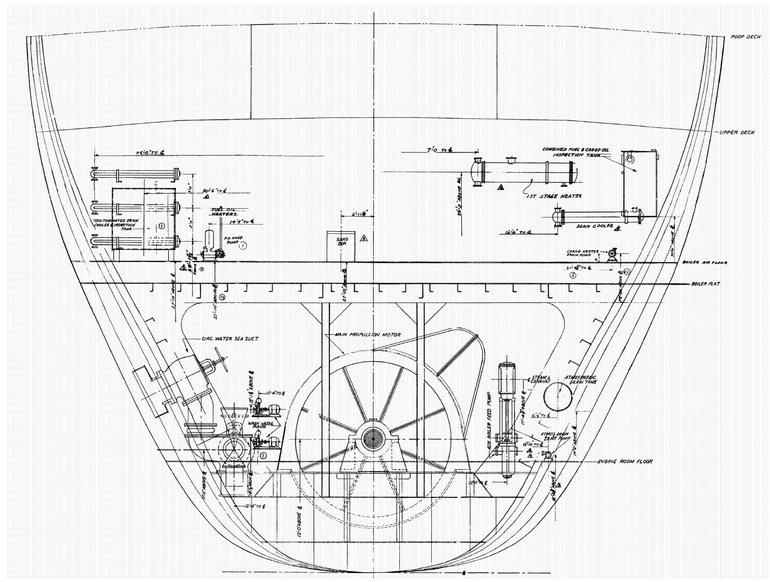
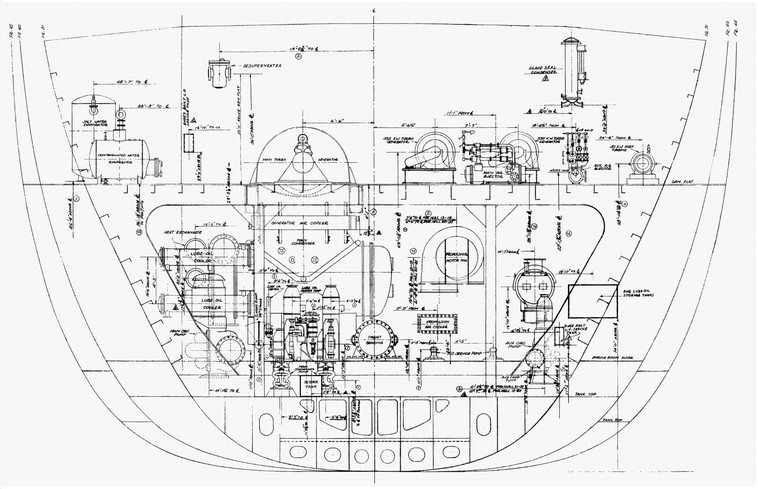




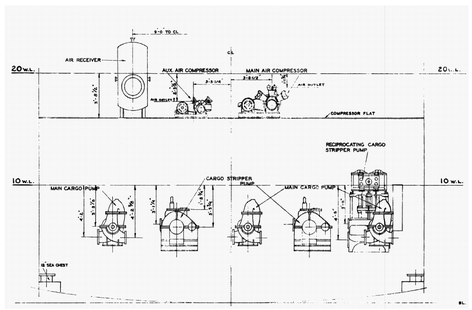
1 Section at Frame 19 Looking Forward



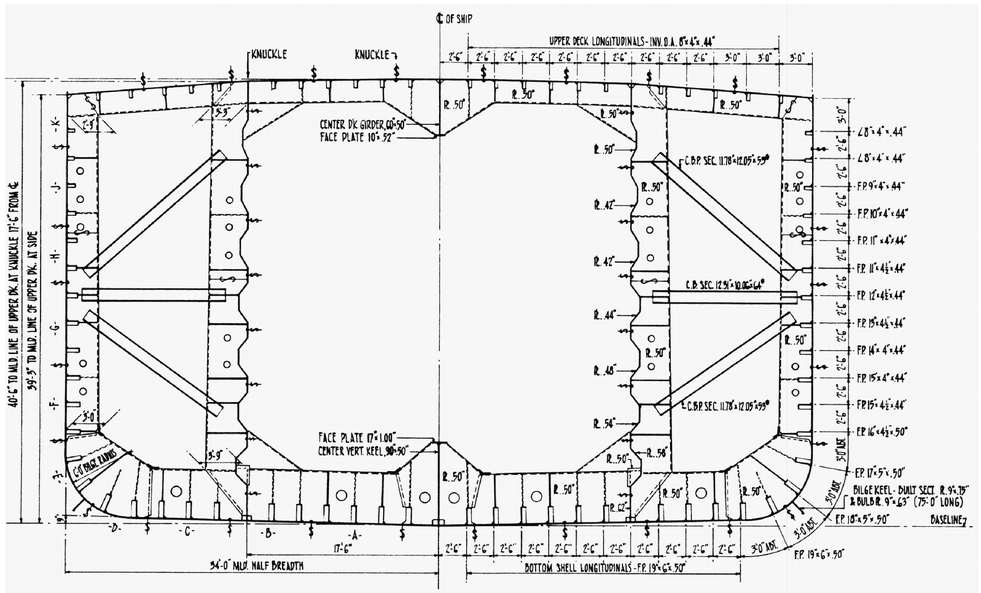
2 Section at Frame 25 Looking Forward



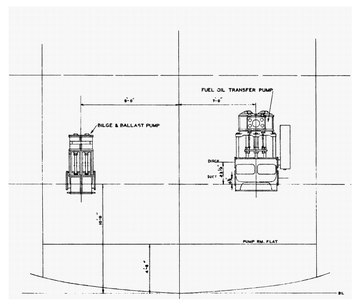
3 Section at Frame 31 Looking Forward



4 Section at Frame 45 Looking Forward


℄ OF SHIP
KNUCKLE
KNUCKLE
UPPER DECK LONGITUDINALS - INV. O.A. 8"x4"x.44"
CENTER DK. GIRDER 120"x50"
FACE PLATE 10"x.92"
C.B.P. SEC. 11.78x12.05x.99#
C.B. SEC. 12.5"x10.05x.64#
FACE PLATE 17"x1.00"
CENTER VERT. KEEL 90"x50"
C.L. FACE LONG.
BILGE KEEL - DUCT SECT. R. 9"x.25" (75'-0" LONG)
& BULB R. 9"x.25" (75'-0" LONG)
BASELINE
54'-0" MLD. HALF BREADTH
BOTTOM SHELL LONGITUDINALS - F.P. 19"x6"x.50"
40'-5" TO MLD. LINE OF UPPER DK. AT YOKKALE 17'-6" FROM ℄
39'-5" TO MLD. LINE OF UPPER DK. AT SIDE

5 Section Through Corrugated Cargo Tank Mid-Ship



6 Section at Frame 73 Looking Forward

0 5 10 15 20 25 30 35 FEET 40 45 50 55 60 65 70

3/8"=1'-0"

0 1 2 3 4 5 6 7 8 9 METERS

NOTE: DRAWINGS ARE SCANS OF ORIGINAL DRAWINGS LOCATED AT THE NATIONAL ARCHIVES AND RECORDS ADMINISTRATION

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HABS MARITIME
RECONNAISSANCE SURVEY
NATIONAL PARK SERVICE
UNITED STATES DEPARTMENT OF THE INTERIOR

MISSION SANTA YNEZ (AO-134)
SUISUN BAY RESERVE FLEET
SOLANO

BENICIA VICINITY

CALIFORNIA

SHEET 4 OF 8

HISTORIC AMERICAN ENGINEERING RECORD CA-337

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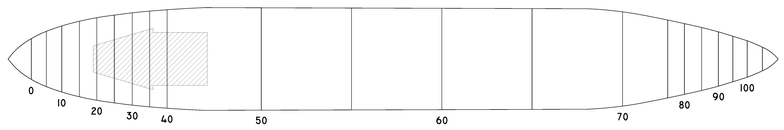

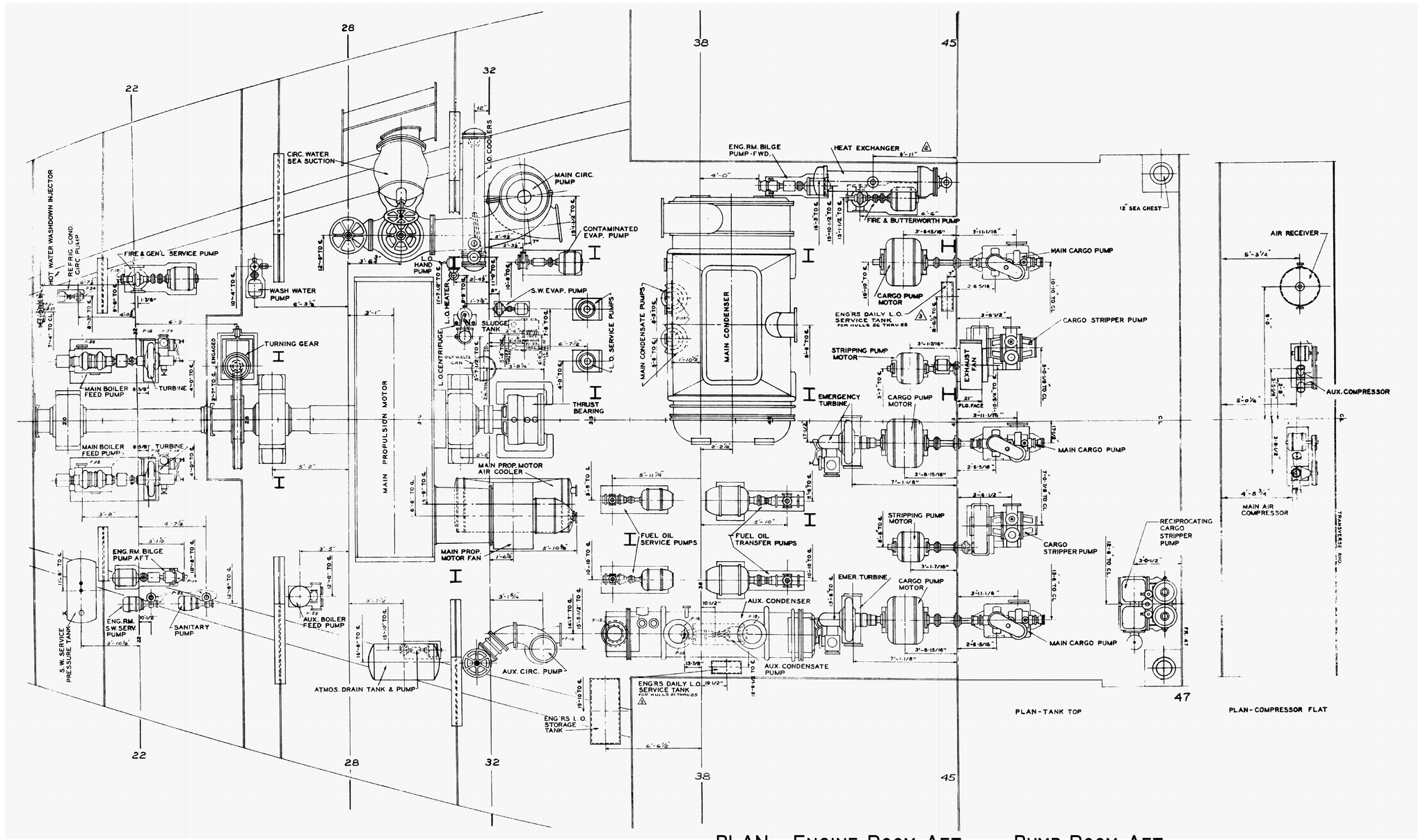

PLAN: ENGINE ROOM AFT PUMP ROOM AFT

0 5 10 15 20 25 30 35 FEET 40 45 50 55 60 65 70

3/8"=1'-0"

0 1 2 3 4 5 6 7 8 9 METERS

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SHEET 5 OF 8

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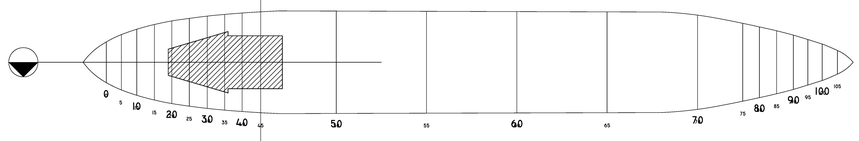
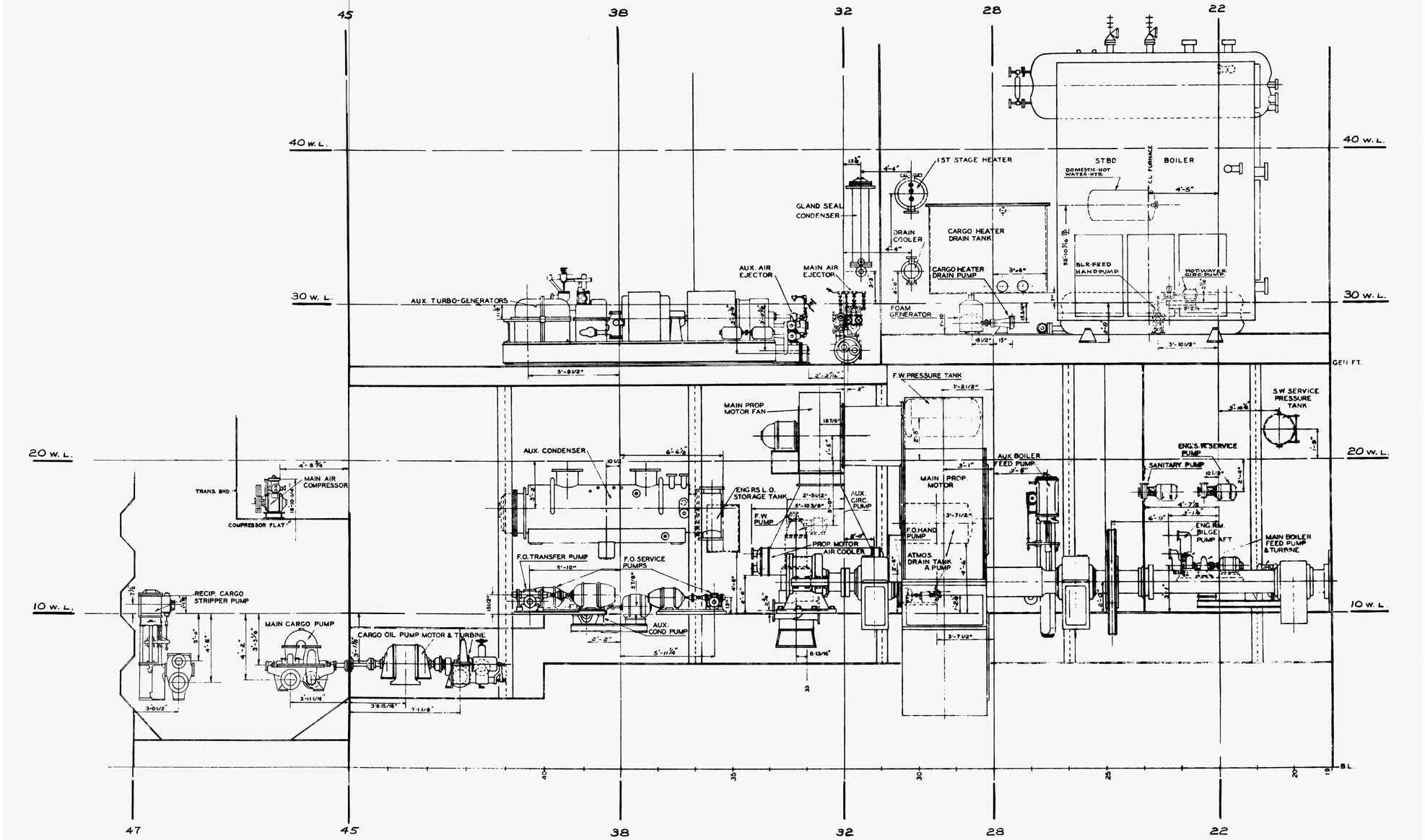
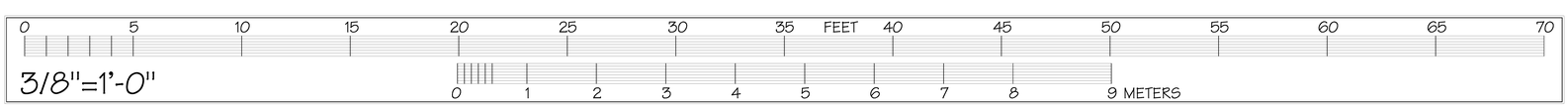




SECTION: PUMP ROOM AFT ENGINE ROOM AFT



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NATIONAL PARK SERVICE
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MISSION SANTA YNEZ (AO-134)
SUISUN BAY RESERVE FLEET
SOLANO

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SHEET 6 OF 8

HISTORIC AMERICAN ENGINEERING RECORD CA-337

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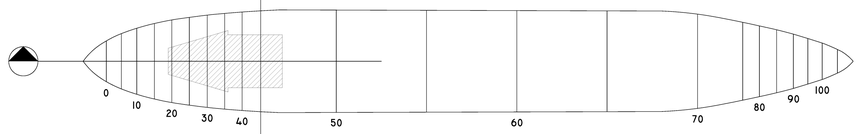

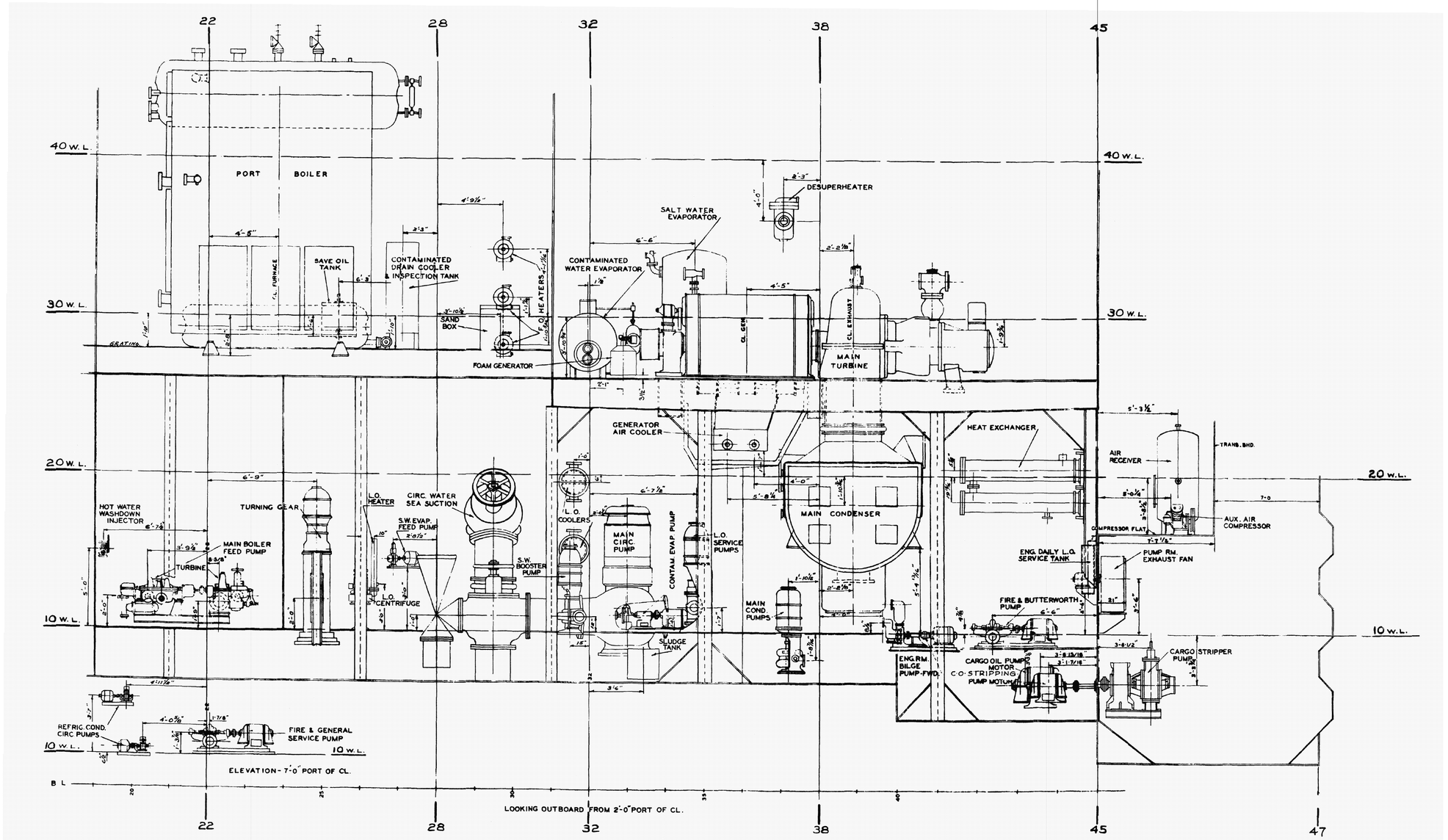

SECTION: ENGINE ROOM AFT PUMP ROOM AFT

0 5 10 15 20 25 30 35 FEET 40 45 50 55 60 65 70

3/8"=1'-0"

0 1 2 3 4 5 6 7 8 9 METERS

NOTE: DRAWINGS ARE SCANS OF ORIGINAL DRAWINGS LOCATED AT THE NATIONAL ARCHIVES AND RECORDS ADMINISTRATION

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MISSION SANTA YNEZ (AO-134)
SUISUN BAY RESERVE FLEET
SOLANO
BENICIA VICINITY
CALIFORNIA

SHEET 7 OF 8

HISTORIC AMERICAN ENGINEERING RECORD
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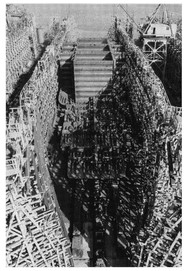
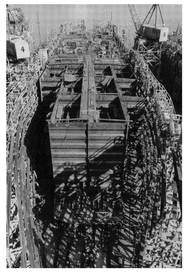
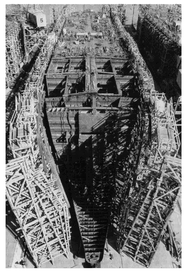


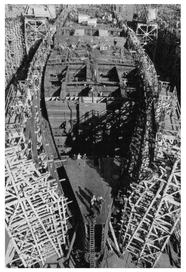
BOW VIEW HULL 37, WAY 2
November 26, 1943
0 Days after Keel



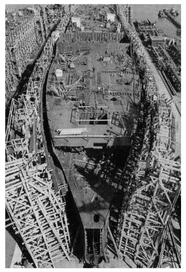
BOW VIEW HULL 35, WAY 4
November 26, 1943
14 Days after Keel



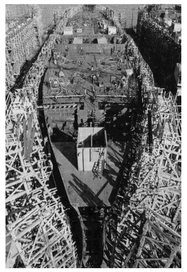
BOW VIEW HULL 34, WAY 5
October 29, 1943
21 Days after Keel



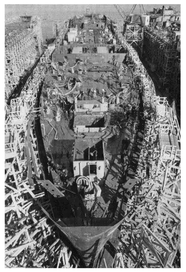
BOW VIEW HULL 36, WAY 3
November 26, 1943
25 Days after Keel



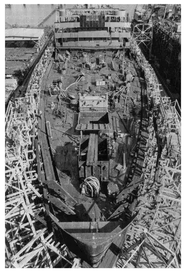
BOW VIEW HULL 33, WAY 6
October 29, 1943
34 Days after Keel



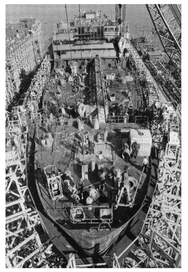
BOW VIEW HULL 35, WAY 4
November 26, 1943
42 Days after Keel



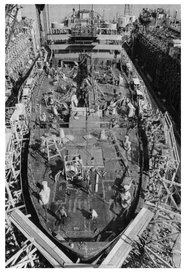
BOW VIEW HULL 34, WAY 5
November 26, 1943
49 Days after Keel



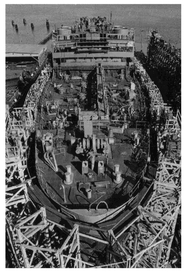
BOW VIEW HULL 32, WAY 1
October 29, 1943
50 Days after Keel



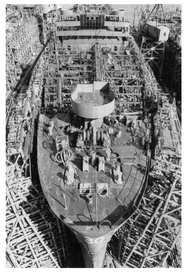
BOW VIEW HULL 35, WAY 6
November 26, 1943
62 Days after Keel



BOW VIEW HULL 31, WAY 2
October 29, 1943
64 Days after Keel

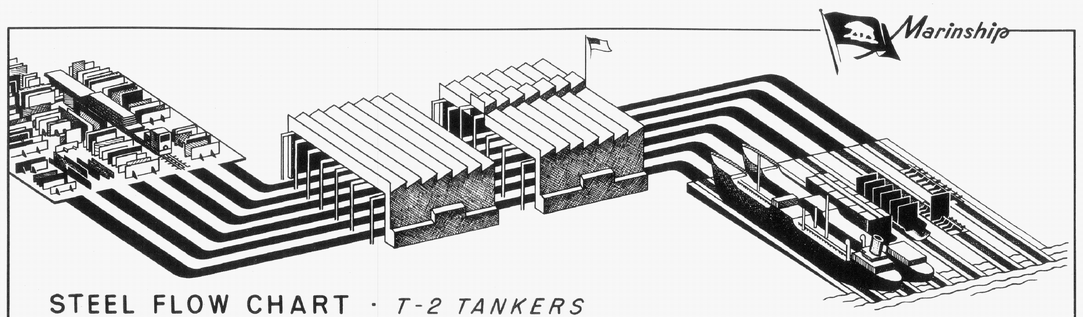


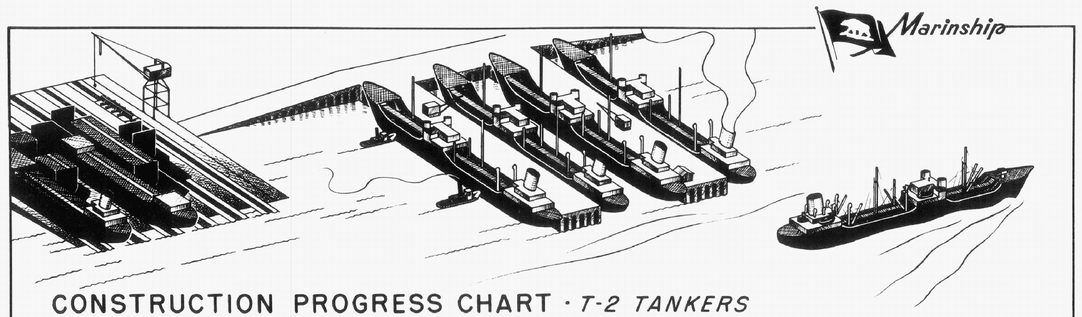
BOW VIEW HULL 32, WAY 1
November 26, 1943
78 Days after Keel



BOW VIEW HULL 30, WAY 3
October 29, 1943
79 Days after Keel

ASSEMBLY AND CONSTRUCTION OF T2 NAVY TANKERS

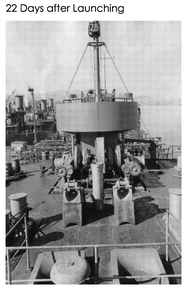




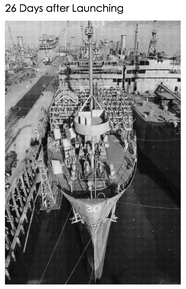
BOW VIEW HULL 31, DOCK A-3
November 26, 1943
1 Day after Launching

BOW VIEW HULL 29, DOCK D-1
October 29, 1943
15 Days after Launching

BOW VIEW HULL 28, DOCK A-2
October 29, 1943
22 Days after Launching



BOW VIEW HULL 30, DOCK A
November 26, 1943
26 Days after Launching

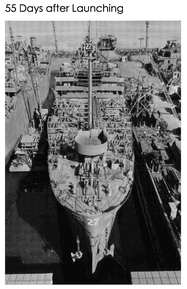


BOW VIEW HULL 29, DOCK D
November 26, 1943
43 Days after Launching

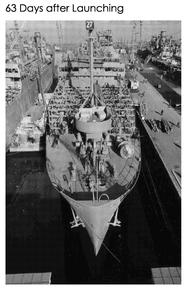
BOW VIEW HULL 28, DOCK C
November 26, 1943
50 Days after Launching

BOW VIEW HULL 26, DOCK B
October 29, 1943
51 Days after Launching

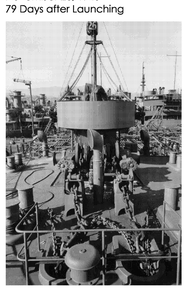
BOW VIEW HULL 27, DOCK B
October 29, 1943
55 Days after Launching



BOW VIEW HULL 27, DOCK B
November 26, 1943
63 Days after Launching

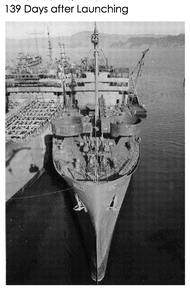


BOW VIEW HULL 26, DOCK A-2
November 26, 1943
79 Days after Launching



BOW VIEW HULL 22, DOCK A
October 29, 1943
111 Days after Launching

BOW VIEW HULL 22, DOCK A-1
November 26, 1943
139 Days after Launching



DELINEATED BY: C.V.OLIN, 2006

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